

# EQUIVDOC INC 'J03049105'

\*\*\*\*\* Item Number 1 of 1 \*\*\*\*\*

DESCRIP :: PATENT  
TITLE :: Conductive particle for adhesive having anisotropic conductivity - comp rises gold and silver layers on high polymer substance, treated with silane coupling agent  
ASSIGNEE :: SHINETSU POLYMER CO LTD  
PACODE :: SHPL  
ACCNNO :: 266380  
DATE :: Mar 01, 1991  
ABSTRACT :: < BASIC> JP 3049105 A conductive particle for adhesive with anisotropic conductivity comprises a core of a high polymer substance on which Ag layer of 0.1-0.5microns. A Au layer of 0.01-0.1micron is formed on the Ag layer. The surface of the spherical conductive particle (1-20 microns) is treated with a silane coupling agent selected from gamma-methacryloxypropyl -trimethoxy-silane, gamma-mercaptopropyl -trimethoxy-silane, gamma-chloropropyl -trimethoxy-silane. The adhesive is prep'd. as follows: the spherical particles are screened with the first sieve with required mesh to remove small particles, then the particles, insulating adhesive soln. having viscosity of 10-100 poise, and the silane coupling agent are mixed and stirred. The mixt. is screened with the second sieve with larger mesh than that of the first sieve to obtain insulating adhesive soln. contg. spherical particles which pass the second sieve. Viscosity of the soln. is adjusted to obtain final prod.. USE/ADVANTAGE - The conductive particle is used as adhesive -for connection between two electrodes of a printed substrate, LCD element, plasma display element, IC, LSI, chip resistor, chip condenser. Stable conductivity for connection of a minute circuits can be obtd. and also appropriate insulation between adjacent circuits can be obtd.. @ (6pp Dwg.No.0/0)@  
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PNBASIC :: J03049105  
PRIORNO :: J89182518  
DATEPR :: Jul 17, 1989  
EQUIVDOC :: J95034325 J03049105 J89182518 JPAT  
SUBJECT :: METHACRYLOXY PROPYL MERCAPTO ELCON  
SUBJECTP :: Radiation/Radical; Si-OR/Si-Alkoxy; Adhesion  
LANG :: JAPANESE  
TYPE :: PTNT  
IPCODE :: C09J-009/02; H01B-001/02; H01B-001/22; H01R-004/04  
DPCODE :: A81; G03; L03; X12; A85; U11; U14; R41; R48  
MANUAL :: A08-M01D; A08-M09A; A09-A03; A12-E01; G03-B01; G03-B02; L03-A01A  
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YEARPR :: 1989  
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UPDATER :: TDD